

Appendix A: WWTP Effluent BOD Violations for 2013-2018

Year (Total Violations)	Month	WWTP Effluent BOD			
		Monthly Avg. Limit=30 mg/L	Weekly Avg. Limit=45 mg/L	Daily Max Limit=65 mg/L	Date Violation Occurred
2013 (4)	September	45	70	70	9/6/13
	October	-- ¹	59	-	10/15/13
2014 (11)	April	31	--	--	--
	June	32	--	--	--
	July	35	62	--	7/3/14
	August	39	49	--	8/1/14
	October	42	84	84	10/10/14
	November	43	58	--	11/7/14
2015 (23)	January	47	80	80	1/16/15
			46	--	1/23/15
	February	81	50	--	2/6/15
			79	79	2/13/15
			140	140	2/20/15
			56	--	2/27/15
	March	61	96	96	3/6/15
			48	--	3/13/15
			60	--	3/27/15
	April	37.5	59	--	4/17/15
	May	65	160	160	5/1/15
			55	--	5/15/15
June	33	--	--	--	
2017 (1)	May	--	62	--	5/26/17

1. Note that "--" represents a compliant value reported, not a missing data value.

Appendix B: WWTP Effluent TSS Violations for 2013-2018

Year (Total Violations)	Month	WWTP Effluent TSS			
		Monthly Avg.	Weekly Avg.	Daily Max	Date Violation Occurred
		Limit= 30 mg/L	Limit=45 mg/L	Limit=65 mg/L	
2013 (1)	September	--	56	--	9/20/13
2014 (8)	June	59	200	200	6/13/14
	September	79	220	220	9/5/14
			100	100	9/19/14
2017 (1)	June	--	46	--	6/2/17

Appendix C: WWTP Effluent Total Nitrogen Violations for 2013-2018

Year (Total Violations)	Month	WWTP Effluent Total Nitrogen			
		Monthly Avg. Limit=10 mg/L	Weekly Avg. Limit=15 mg/L	Daily Max Limit=20 mg/L	Date Violation Occurred
2013 (24)	August	31	25	25	8/6/13
			35	35	8/15/13
			32	32	8/22/13
			32	32	8/26/13
	September	19	51	51	9/20/13
	October	12.5	33	33	10/1/13
	November	16	16	--	11/12/13
	December	25.25	34	34	12/10/13
			32	32	12/17/13
			31	31	12/23/17
2014 (45)	January	35	20	--	1/17/14
			26	26	1/24/14
			89.8	89.8	1/31/14
	February	27.3	53.2	53.2	2/7/14
			34.8	34.8	2/14/14
	April	13.2	15.5	--	4/18/14
	May	16.7	17.6	--	5/16/14
			20.6	20.6	5/23/14
			21.4	21.4	5/30/14
	June	16.8	26.4	26.4	6/6/14
			18.9	--	6/13/14
			21.3	21.3	6/20/14
	September	24.4	16.7	--	9/5/14
			52.5	52.5	9/12/14
			19.5	--	9/26/14
	November	20.6	21.4	21.4	11/7/14
			19.9	--	11/14/14
			26.6	26.6	11/26/14
	December	24.8	28.8	28.8	12/5/14
			28.8	28.8	12/12/14
20.4			20.4	12/19/14	
21			21	12/23/14	
2015 (7)	January	--	17.4	--	1/2/15
	April	16.7	46.6	46.6	4/17/15
	August	--	17	--	8/21/15
	December	11.56	18.1	--	12/4/15
2016 (2)	January	--	20.8	20.8	1/8/16
2017 (4)	March	--	17.3	--	3/17/17
	December	--	26.1	--	12/29/17
2018 (3)	January	14.2	35.8	35.8	1/5/18

Appendix D: WWTP Effluent TDS Violations for 2013-2018

Year (Total Violations)	Month	Average Effluent TDS Concentration (mg/L) Limit= 550 mg/L
2013 (5)	August	678
	September	730
	October	736
	November	876
	December	739
2014 (8)	January	706
	February	642
	March	570
	May	608
	June	715
	July	658
	August	610
	September	668
2015 (8)	May	596
	June	633
	July	583
	August	580
	September	595
	October	644
	November	723
	December	677
2016 (7)	January	582
	February	560
	March	607
	April	628
	May	575
	June	657
	December	631
2017 (7)	February	582
	March	567
	April	633
	May	643
	September	573
	October	556
	November	559
2018 (2)	January	646
	February	567

Appendix E: WWTP Effluent TCOs Violations for 2016- 2018Year (Total Violations)	Month	Effluent TCOs MPN/100 mL Limit= 2.2 MPN/100mL	Date Violation Occurred	
2016 (33)	May	1600	5/20/16	
		900	5/27/16	
	June	1600	6/3/16	
		>1600	6/10/16	
		>1600	6/17/16	
	July	>1600	6/24/16	
		>1600	7/1/16	
		900	7/8/16	
		>1600	7/15/16	
	August	900	7/22/16	
		>1600	7/29/16	
		>1600	8/5/16	
		>1600	8/12/16	
	September	>1600	8/19/16	
		>1600	8/26/16	
		>1600	9/2/16	
		>1600	9/9/16	
		>1600	9/16/16	
	October	>1600	9/23/16	
		1600	9/30/16	
		>1600	10/7/16	
		>1600	10/14/16	
	November	>1600	10/21/16	
		>1600	10/28/16	
		>1600	11/4/16	
		240	11/11/16	
	December	30	11/18/16	
		17	11/23/16	
		90	12/2/16	
		280	12/9/16	
		900	12/16/16	
	2017 (24)	January	170	12/21/16
			>1600	12/30/16
>1600			1/6/17	
1600			1/13/17	
February		900	1/20/17	
		>1600	1/27/17	
		80	2/3/17	
March		90	2/10/17	
		230	2/17/17	
April		4	3/10/17	
	4	3/31/17		
23	4/21/17			

		11	4/28/17
	May	4	5/12/17
		130	5/19/17
		4	5/26/17
	June	30	6/2/17
		7	6/9/17
		5	6/16/17
	July	3	7/7/17
		17	7/21/17
	August	19	8/25/17
	September	8	9/8/17
	November	4	11/3/17
	December	>1600	12/22/17
		>1600	12/29/17
2018 (7)	January	>1600	1/5/18
		>1600	1/12/18
		50	1/19/18
	February	39	2/2/18
		300	2/9/18
		170	2/16/18
		900	2/23/18

Appendix F: Alterations and Corrective Actions Taken By Discharger

October 2013: Worked with dosing pump to provide consistent low flows and prevent overfeeding of Micro-C to reduce total nitrogen levels.

January 2014: Altered Micro-C dose to help reduce total nitrogen and total dissolved solids.

May 2014: Added sodium hydroxide to test if increasing pH would help denitrification process and reduce total nitrogen levels.

May 2015: Adjusted blowers to increase dissolved oxygen levels and decrease BOD.

June 2015: Installed additional Micro-C dosing pump, additional solids tank recirculation for better settling of solids, and added a new crane and piping to allow decanting during low flow.

August 2015: Adjusted flow rates and blowers to fix imbalance of flow and help reduce total nitrogen.

November 2016: Installed disinfection system (Glasco UV Model Glow-5000 sterilizer and ballast control center) to reduce total coliform organisms.

January 2017: Installed temporary gravity flow bag filter system to remove solids before disinfection to test for optimal disinfection. Installed pressurized bag filter.

December 2017: Ordered two new pumps for temporary operations and replacement.